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APPLICATION,NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,957	06/09/2004	Masuhiro Natsuhara	039.9016	3956
29453	7590 05/10/2007	EXAMINER		
DOJIMIA BUI	RAKAMI IP ASSOCIATE LDING, 7TH FLOOR	KACKAR, RAM N		
6-8 NISHITEMMA 2-CHOME, KITA-KU OSAKA-SHI, 530-0047			ART UNIT	PAPER NUMBER
JAPAN	, <i>33</i> 0 -004 7		1763	
		•	MAIL DATE	DELIVERY MODE
			05/10/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
Office Action Commence	10/709,957	NATSUHARA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ram N. Kackar	1763			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 07 Ma	arch 2007.	, •			
	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits in					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4)⊠ Claim(s) <u>1-9 and 13</u> is/are pending in the applic	ration				
4a) Of the above claim(s) is/are withdraw					
5) Claim(s) is/are allowed.	,				
6)⊠ Claim(s) <u>1-9 and 13</u> is/are rejected.	•				
7) Claim(s) is/are objected to.	•				
8) Claim(s) are subject to restriction and/or	election requirement.	-			
Application Papers	•				
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction		• •			
11) The oath or declaration is objected to by the Exa					
Priority under 35 U.S.C. § 119		Action of form 1 0-132.			
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-	·(d) or (f).			
a)⊠ All b)□ Some * c)□ None of: 1.⊠ Certified copies of the priority documents					
		•			
— The state of the priority about the received in this Mational Stage					
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the partition parties and acceptance.					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)	•				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)					
Paper No(s)/Mail Date 1/14/2007	6) Other:	, , , , , , , , , , , , , , , , , , ,			
S. Patent and Trademark Office					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/7/2007 has been entered.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 1- 9 and 13 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The new limitation of the cross-section being trapezoidal is a new matter. The specification does not point to any significance to a certain shape as long as b>a.
- 4. The new limitations of (b-a) being in the range from 50µm to 35 mm in claim 2 and being in the range from 10mm to 30 mm in claim 9 is new matter. The specification does not attribute any special significance to (b-a) being minimum 50µm.

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Claim Rejections – 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-9 and 13 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Aruga et al (US 5688331).

Aruga et al disclose a wafer holder for semiconductor manufacturing equipment (Fig 6-39) with a diameter of the wafer-carrying surface clearly smaller (more than 50µm) than the diameter of the opposite side. The wafer holder is disclosed to be of ceramic (abstract) with embedded heating element (43). Aruga discloses the diameter gradually expanding (Col 5 lines 10-15).

7. Claims 1-9 and 13 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Koichi Nagasaki (JP 09045758).

Koichi Nagasaki discloses a wafer holder for semiconductor manufacturing equipment (Fig 1) with a diameter of the wafer-carrying surface clearly smaller than the diameter of the opposite side. The wafer holder is disclosed to be of ceramic (abstract) adapted for heating element (Paragraph 1). Koichi Nagasaki discloses the diameter gradually expanding and the difference b-a could be in a range of 3-24mm (calculating by thickness and angle range disclosed).

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Response to Arguments

Applicant's arguments filed 3/7/2007 have been fully considered but they are not persuasive.

Applicants argument that for a given (b-a) a trapezoidal configuration provides lowest lateral surface area is not persuasive since the specification is silent about this conclusion. In fact specification does not provide any significance to shape as long as b>a.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ram N. Kackar whose telephone number is 571 272 1436. The examiner can normally be reached on M-F 8:00 A.M to 5:P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on 571 272 1435. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Ram Kackar Primary Examiner AU 1763